

## TECHNICAL DESCRIPTION

### MODEL GRV-390 REMOTE TRANSMITTER

#### DESCRIPTION

The transmitter is a low-power communication device operating at frequency of 390MHz. The signal is a digital-coding modulated transmission which transmitted data to a receiver.

#### FUNCTION

The momentary switch (SW1) activates the transmission and the LED (DS1) lights up for indication.

The digital modulator is employed in the proprietary integrated circuit (U3), which sends encoded digital data by selection code jumpers. Ceramic Resonator (Y1) and Capacitor (C1, C2) established the clock rate of 4MHz.

The output data from the proprietary integrated circuit (U3) drives a tuned Colpitts power oscillator. The oscillator is a LC oscillator formed by transistor (Q4) and associated components (C7, C12, C13, C14). The inductive jumper (ANT2) controls the frequency of oscillation. The inductive jumper is installed on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R11) in conjunction with the base bias circuit (R14, R15) regulates the power output of the transmitter.

The unit operates from a battery of 12V. The transmitter is function with the receiver of FCC ID B8QACSR3.

Warning: Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user's authority to operate the equipment.